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2020 FAZLUR RAHMAN KHAN DISTINGUISHED LECTURE SERIES

The Fazlur Rahman Khan Distinguished Lecture Series honors Dr. Fazlur Rahman Khan's legacy of excellence in structural engineering and architecture

Initiated and Organized by PROFESSOR DAN M. FRANGOPOL

The Fazlur Rahman Khan Endowed Chair of Structural Engineering and Architecture
Department of Civil and Environmental Engineering, ATLSS Engineering Research Center, Lehigh University
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1st Lecture: JON PICKARD, Principal, Pickard Chilton, New Haven, CT "Gracing the Sky, Enriching the City"
Friday, February 28, 2020 – 4:30 pm

2nd Lecture (Virtual): AFTAB A. MUFTI, Emeritus Professor, University of Manitoba, Winnipeg, Manitoba, Canada "Intelligent Sensing for Innovative Structures: Development of the New Discipline of Civionics Thursday, October 22, 2020 – 4:30 pm

3rd Lecture (Virtual): GREGORY DEIERLEIN, John A. Blume Professor in the School of Engineering, Stanford University, Stanford, CA

"From Performance-Based Engineering to Urban Resilience" Thursday, November 19, 2020 – 4:30 pm

http://www.lehigh.edu/frkseries



John Hancock Center



Fazlur Rahman Khan



Sears Tower

In step with the abounding vitality of the time, structural engineer **FAZLUR RAHMAN KHAN** (1929 — 1982) ushered in a renaissance in skyscraper construction during the second half of the 20th century. Fazlur Khan was a pragmatic visionary: the series of progressive ideas that he brought forth for efficient high-rise construction in the 1960s and '70s were validated in his own work, notably his efficient designs for Chicago's 100-story John Hancock Center and 110-story Sears Tower (the tallest building in the United States since its completion in 1974). One of the foremost structural engineers of the 20th century, Fazlur Khan epitomized both structural engineering achievement and creative collaborative effort between architect and engineer. Only when architectural design is grounded in structural realities, he believed — thus celebrating architecture's nature as a constructive art rooted in the earth — can "the resulting aesthetics ... have a transcendental value and quality." His ideas for these sky-scraping towers offered more than economic construction and iconic architectural images; they gave people the opportunity to work and live "in the sky." Hancock Center residents thrive on the wide expanse of sky and lake before them, the stunning quiet in the heart of the city, and the intimacy with nature at such heights: the rising sun, the moon and stars, the migrating flocks of birds. Fazlur Khan was always clear about the purpose of architecture. His characteristic statement to an editor in 1971, having just been selected Construction's Man of the Year by *Engineering News-Record*, is commemorated in a plaque in Onterie Center (446 E. Ontario, Chicago): "**The technical man must not be lost in his own technology. He must be able to appreciate life; and life is art, drama, music, and most importantly, people.**"

DAN M. FRANGOPOL came to Lehigh University in August 2006 from the University of Colorado at Boulder where he taught since 1983. He received his doctorate in applied sciences from the University of Liège, Belgium. A Distinguished Member of ASCE, a Foreign Member of the Academy of Europe, a Foreign Member of the Romanian Academy, Prof. Frangopol holds four honorary doctorates from the Polytechnic University of Milan, Italy, the University of Liège, Belgium, the Technical University of Civil Engineering, Bucharest, Romania, and the Technical University of Isai, Romania. Before joining the University of Colorado, he worked for four years in structural design with A. Lipski Consulting Engineering, Bucharest, Romania, and the Technical University of Isai, Romania. Before joining the University of Colorado, he worked for four years in structural design with A. Lipski Consulting Engineers in Brussels, Belgium. Frangopol is an experienced researcher and consultant to industry and government agencies both nationally and abroad. His main areas of expertise are structural reliability, structural optimization, bridge engineering, and life-cycle analysis, design, maintenance and management of structures and infrastructures. Frangopol is the Founding President of the International Association for Bridge Maintenance and Safety (IABMAS) and the International Association for Life-Cycle Civil Engineering (IALCCE). He is an Honorary Professor at 12 universities including Hong Kong Polytechnic, Tongji, Southeast, Tianjin, Harbin, Dalian, and Chang'an Universities, and the recipient of several awards and chang'an Universities, and the recipient of several awards and chang'an Universities, and the recipient of several awards and chang'an Universities, and the recipient of several awards and chang'an Universities, and the recipient of several awards and chang'an Universities, and the recipient of several awards and chang'an Universities, and the recipient of several awards and chang'an Universities, and the recipient of several award



1 PDH will be awarded to eligible attendees for each lecture